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DIALOG(R)File 351:Derwent WPI

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New angiotensin converting enzyme-inhibiting peptide - can be used in the treatment of hypertension or as health food

Patent Assignee: CALPIS SHOKUHIN KOGYO KK (CALV)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4282398	A	19921007	JP 9146430	A	19910312	199248 B
JP 3149199	B2	20010326	JP 9146430	A	19910312	200126

Priority Applications (No Type Date): JP 9146430 A 19910312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 4282398	A		5	C07K-005/08	
JP 3149199	B2		5	C07K-005/08	Previous Publ. patent JP 4282398

Abstract (Basic): JP 4282398 A

The peptide contains an amino acid sequence comprising L-phenylalanine-L-aspartic acid-L-lysine. The peptide may be produced by decomposing milk serum protein with trypsin or peptide synthesis. For example, milk serum protein such as cheese whey or acid whey is decomposed with trypsin in condition of pH 6 - 9, temp. 25 - 50 deg.C for 12 - 48 hours. Acid is added to decomposed product to precipitate and remove trypsin and undecomposed protein and give a supernatant liquor. Ethanol etc. is added to the supernatant liquor to precipitate protein and then removed. The residue is subjected to gel filtration by means of Sephadex LH-20, Sephadex G-10 and sepn. and purificn. by high performance chromatography (HPLC).

USE - The peptide having ACE-inhibiting activity is useful as a remedy or preventive compsn. for hypertension, or health food etc.

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ion exchange. Title Terms: NEW; ANGIOTENSIN; CONVERT; ENZYME; INHIBIT; PEPTIDE; CAN; TREAT; HYPERTENSIVE; HEALTH; FOOD

Derwent Class: B04; D13; D16

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International Patent Class (Additional): A23L-001/305; A61K-037/64;

A61K-038/55; A61P-009/12; C12N-009/99; C12P-021/06

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Chemical Fragment Codes (M2):

01 G010 G100 H1 H101 H181 J0 J014 J1 J171 J172 J3 J372 M280 M312 M315
M343 M349 M371 M381 M414 M510 M520 M531 M540 M710 M903 M904 P526
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Generic Compound Numbers: 9248-14101-N